

Special Issue

Emerging Memory/Storage Technologies and Applications: Trends, and Challenges

Message from the Guest Editors

Recently, the explosive increase in data-intensive applications, including machine learning, has accelerated the development of memory and storage technologies, and its importance has been emphasized more and more. With the advent of new memory and storage devices, the traditional memory hierarchy of computer systems is undergoing a change with new layers. In this context, this Special Issue aims to highlight emerging memory/storage technologies and applications. Potential topics include but are not limited to the following:

- Memory and storage design for data-intensive applications;
- AI/ML for memory/storage optimization;
- Memory/storage for AI/ML;
- Emerging memory/storage hierarchy design;
- Processing in memory /in-storage processing technologies;
- Reliability, availability, and fault tolerance;
- RAID/all flash array/erasure coding;
- System software for memory/storage technologies;
- Energy-efficient memory/storage management;
- Performance modeling, prediction, and simulation;
- Key-value and NoSQL store;
- File systems and workload benchmarking.

https://www.mdpi.com/journal/electronics/special_issues/1CJIEPH4I1 Welcome to contribute!

Guest Editors

Dr. Jaeho Kim

Dr. Donghyun Kang

Dr. Sungyong Ahn

Deadline for manuscript submissions

closed (28 February 2023)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/132104

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 16.8 days after
submission; acceptance to publication is undertaken in 2.4
days (median values for papers published in this journal in
the first half of 2025).